CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/910,087

ENTERED

CRF Processing Date: 9/9/2001
Edited by: _____
Verified by: _____ (STIC sta)

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was 'wrapped' down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:
_____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

☐ Added the mandatory heading and subheadings for 'Current Application Data'.

☐ Edited the 'Number of Sequences' field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
_____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings: Headings edited included: _____

☐ Deleted extra, invalid, headings-used by an applicant, specifically:
_____

☐ Deleted: ☐ non-ASCII 'garbage' at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically:
_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:
_____

☑ A 'Hard Page Break' code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted ending stop codon in amino acid sequences and adjusted the '(A)Length:' field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other:
_____
_____
_____

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              RAW SEQUENCE LISTING              DATE: 09/09/2001
              PATENT APPLICATION:  US/09/910,087    TIME: 18:50:52

              Input Set : A:\Pto.amc
              Output Set: N:\CRF3\09072001\I910087.raw

              SEQUENCE LISTING
C--> 5 (1) GENERAL INFORMATION:
     7       (i) APPLICANT: Koopman, Peter
     8                      Goodfellow, Peter
C--> 10     (ii) TITLE OF INVENTION: SOX-9 GENE AND PROTEIN AND
    11                               USE IN THE REGENERATION OF BONE OR CARTILAGE
    13    (iii) NUMBER OF SEQUENCES: 21
    15     (iv) CORRESPONDENCE ADDRESS:
    16          (A) ADDRESSEE: Scully, Scott, Murphy & Presser
    17          (B) STREET: 400 Garden City Plaza
    18          (C) CITY: Garden City
    19          (D) STATE: NY
    20          (E) COUNTRY: U.S.A.
    21          (F) ZIP: 11530
    23      (v) COMPUTER READABLE FORM:
    24          (A) MEDIUM TYPE: Diskette
    25          (B) COMPUTER: IBM Compatible
    26          (C) OPERATING SYSTEM: DOS
    27          (D) SOFTWARE: FastSEQ Version 1.5
    29     (vi) CURRENT APPLICATION DATA:
C--> 30          (A) APPLICATION NUMBER: US/09/910,087
C--> 31          (B) FILING DATE: 20-Jul-2001
    32          (C) CLASSIFICATION:
    34    (vii) PRIOR APPLICATION DATA:
    35          (A) APPLICATION NUMBER: AU PM9714
    36          (B) FILING DATE: 29-NOV-1994
    38          (A) APPLICATION NUMBER: AU PM9835
    39          (B) FILING DATE: 05-DEC-1994
    41          (A) APPLICATION NUMBER: PCT/AU95/00799
    42          (B) FILING DATE: 29-NOV-1995
    44   (viii) ATTORNEY/AGENT INFORMATION:
    45          (A) NAME: DiGiglio, Frank S.
    46          (B) REGISTRATION NUMBER: 31,346
    47          (C) REFERENCE/DOCKET NUMBER: 10981
    49     (ix) TELECOMMUNICATION INFORMATION:
    50          (A) TELEPHONE: 516-742-4343
    51          (B) TELEFAX: 516-742-4366
    52          (C) TELEX:
    53 (2) INFORMATION FOR SEQ ID NO: 1:
    55       (i) SEQUENCE CHARACTERISTICS:
    56          (A) LENGTH: 7 base pairs
    57          (B) TYPE: nucleic acid
    58          (C) STRANDEDNESS: single
    59          (D) TOPOLOGY: linear
    61      (ii) MOLECULE TYPE: cDNA
    63      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
    65   AATTAAA                                              7
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        RAW SEQUENCE LISTING              DATE: 09/09/2001
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        Input Set : A:\Pto.amc
        Output Set: N:\CRF3\09072001\I910087.raw
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68 (2) INFORMATION FOR SEQ ID NO: 2:
70       (i) SEQUENCE CHARACTERISTICS:
71            (A) LENGTH: 19 base pairs
72            (B) TYPE: nucleic acid
73            (C) STRANDEDNESS: single
74            (D) TOPOLOGY: linear
76       (ii) MOLECULE TYPE: cDNA
78       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
80    CCAAAGTCCT AAAGGTGGG                                           19
83 (2) INFORMATION FOR SEQ ID NO: 3:
85       (i) SEQUENCE CHARACTERISTICS:
86            (A) LENGTH: 19 base pairs
87            (B) TYPE: nucleic acid
88            (C) STRANDEDNESS: single
89            (D) TOPOLOGY: linear
91       (ii) MOLECULE TYPE: cDNA
93       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
95    TTTCAGGCAA ATAAGGCAG                                           19
98 (2) INFORMATION FOR SEQ ID NO: 4:
100       (i) SEQUENCE CHARACTERISTICS:
101            (A) LENGTH: 20 base pairs
102            (B) TYPE: nucleic acid
103            (C) STRANDEDNESS: single
104            (D) TOPOLOGY: linear
106       (ii) MOLECULE TYPE: cDNA
108       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
110    TGGCAATCTA ACAGATGAGA                                         20
113 (2) INFORMATION FOR SEQ ID NO: 5:
115       (i) SEQUENCE CHARACTERISTICS:
116            (A) LENGTH: 20 base pairs
117            (B) TYPE: nucleic acid
118            (C) STRANDEDNESS: single
119            (D) TOPOLOGY: linear
121       (ii) MOLECULE TYPE: cDNA
123       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
125    TCNCAAATGT CATATATCCA                                         20
128 (2) INFORMATION FOR SEQ ID NO: 6:
130       (i) SEQUENCE CHARACTERISTICS:
131            (A) LENGTH: 22 base pairs
132            (B) TYPE: nucleic acid
133            (C) STRANDEDNESS: single
134            (D) TOPOLOGY: linear
136       (ii) MOLECULE TYPE: cDNA
138       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
140    AGTCCAGATT GACTGGAACA CA                                      22
143 (2) INFORMATION FOR SEQ ID NO: 7:
145       (i) SEQUENCE CHARACTERISTICS:
146            (A) LENGTH: 24 base pairs
147            (B) TYPE: nucleic acid
```

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148          (C) STRANDEDNESS: single
149          (D) TOPOLOGY: linear
151      (ii) MOLECULE TYPE: cDNA
153      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
155  GCAATAAGAT ACTAATATGT AGAG                                     24
157  (2) INFORMATION FOR SEQ ID NO: 8:
159      (i) SEQUENCE CHARACTERISTICS:
160          (A) LENGTH: 20 base pairs
161          (B) TYPE: nucleic acid
162          (C) STRANDEDNESS: single
163          (D) TOPOLOGY: linear
165      (ii) MOLECULE TYPE: cDNA
167      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
169  GTCAGCAGAA ATCCTAAAGG                                          20
172  (2) INFORMATION FOR SEQ ID NO: 9:
174      (i) SEQUENCE CHARACTERISTICS:
175          (A) LENGTH: 20 base pairs
176          (B) TYPE: nucleic acid
177          (C) STRANDEDNESS: single
178          (D) TOPOLOGY: linear
180      (ii) MOLECULE TYPE: cDNA
182      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
184  GACTAATGCC GATGGTTAAG                                          20
187  (2) INFORMATION FOR SEQ ID NO: 10:
189      (i) SEQUENCE CHARACTERISTICS:
190          (A) LENGTH: 20 base pairs
191          (B) TYPE: nucleic acid
192          (C) STRANDEDNESS: single
193          (D) TOPOLOGY: linear
195      (ii) MOLECULE TYPE: cDNA
197      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
199  CGCCTCGAGG TGGCTTATCG                                          20
202  (2) INFORMATION FOR SEQ ID NO: 11:
204      (i) SEQUENCE CHARACTERISTICS:
205          (A) LENGTH: 25 base pairs
206          (B) TYPE: nucleic acid
207          (C) STRANDEDNESS: single
208          (D) TOPOLOGY: linear
210      (ii) MOLECULE TYPE: cDNA
212      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
214  ATCATACACA TACGATTTAG GTGAC                                    25
217  (2) INFORMATION FOR SEQ ID NO: 12:
219      (i) SEQUENCE CHARACTERISTICS:
220          (A) LENGTH: 19 base pairs
221          (B) TYPE: nucleic acid
222          (C) STRANDEDNESS: single
223          (D) TOPOLOGY: linear
225      (ii) MOLECULE TYPE: cDNA
227      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
```

RAW SEQUENCE LISTING   DATE: 09/09/2001
PATENT APPLICATION: US/09/910,087   TIME: 18:50:52

Input Set : **A:\Pto.amc**
Output Set: **N:\CRF3\09072001\I910087.raw**

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229   GAGGAAGTCG GTGAAGAAC                                              19
232 (2) INFORMATION FOR SEQ ID NO: 13:
234     (i) SEQUENCE CHARACTERISTICS:
235         (A) LENGTH: 21 base pairs
236         (B) TYPE: nucleic acid
237         (C) STRANDEDNESS: single
238         (D) TOPOLOGY: linear
240    (ii) MOLECULE TYPE: cDNA
242    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
244   TCGCTCATGC CGGAGGAGGA G                                           21
247 (2) INFORMATION FOR SEQ ID NO: 14:
249     (i) SEQUENCE CHARACTERISTICS:
250         (A) LENGTH: 21 base pairs
251         (B) TYPE: nucleic acid
252         (C) STRANDEDNESS: single
253         (D) TOPOLOGY: linear
255    (ii) MOLECULE TYPE: cDNA
257    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
259   GCAATCCCAG GGCCCACCGA C                                           21
261 (2) INFORMATION FOR SEQ ID NO: 15:
263     (i) SEQUENCE CHARACTERISTICS:
264         (A) LENGTH: 22 base pairs
265         (B) TYPE: nucleic acid
266         (C) STRANDEDNESS: single
267         (D) TOPOLOGY: linear
269    (ii) MOLECULE TYPE: cDNA
271    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
273   TTGGAGATGA CGTCGACTGC TC                                          22
276 (2) INFORMATION FOR SEQ ID NO: 16:
278     (i) SEQUENCE CHARACTERISTICS:
279         (A) LENGTH: 20 base pairs
280         (B) TYPE: nucleic acid
281         (C) STRANDEDNESS: single
282         (D) TOPOLOGY: linear
284    (ii) MOLECULE TYPE: cDNA
286    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
288   GCAGCGACGT CATCTCCAAC                                             20
291 (2) INFORMATION FOR SEQ ID NO: 17:
293     (i) SEQUENCE CHARACTERISTICS:
294         (A) LENGTH: 21 base pairs
295         (B) TYPE: nucleic acid
296         (C) STRANDEDNESS: single
297         (D) TOPOLOGY: linear
299    (ii) MOLECULE TYPE: cDNA
301    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
303   GCTGCTTGGA CATCCACACG T                                           21
306 (2) INFORMATION FOR SEQ ID NO: 18:
308     (i) SEQUENCE CHARACTERISTICS:
309         (A) LENGTH: 2249 base pairs
```

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310            (B) TYPE: nucleic acid
311            (C) STRANDEDNESS: single
312            (D) TOPOLOGY: linear
314       (ii) MOLECULE TYPE: cDNA
316       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
318   AGTTTCAGTC CAGGAACTTT TCTTTGCAAG AGAGACGAGG TGCAAGTGGC          50
320   CCCGGTTTCG TTCTCTGTTT TCCCTCCCTC CTCCTCCGCT CCGACTCGCC         100
322   TTCCCCGGGT TTAGAGCCGG CAGCTGAGAC CCGCCACCCA GCGCCTCTGC         150
324   TAAGTGCCCG CCGCCGCAGC CCGGTGACGC GCCAACCTCC CCGGGAGCCG         200
326   TTCGCTCGGC GTCCGCGTCC GGGCAGCTGA GGGAAGAGGA GCCCCAGCCG         250
328   CCGCGGCTTC TCGCCTTTCC CGGCCACCCG CCCCCTGCCC CGGGCTCGCG         300
330   TATGAATCTC CTGGACCCCT TCATGAAGAT GACCGACGAG CAGGAGAAGG         350
332   GCCTGTCTGG CGCCCCCAGC CCCACCATGT CGGAGGACTC GGCTGGTTCG         400
334   CCCTGTCCCT CGGGCTCCGG CTCGGACACG GAGAACACCC GGCCCCAGGA         450
336   GAACACCTTC CCCAAGGGCG AGCCGGATCT GAAGAAGGAG AGCGAGGAAG         500
338   ATAAGTTCCC CGTGTGCATC CGCGAGGCGG TCAGCCAGGT GCTGAAGGGC         550
340   TACGACTGGA CGCTGGTGCC CATGCCCGTG CGCGTCAACG GCTCCAGCAA         600
342   GAACAAGCCA CACGTCAAGC GACCCATGAA CGCCTTCATG GTGTGGGCGC         650
344   AGGCTGCGCG CAGGAAGCTG GCAGACCAGT ACCCGCATCT GCACAACGCG         700
346   GAGCTCAGCA AGACTCTGGG CAAGCTCTGG AGGCTGCTGA ACGAGAGCGA         750
348   GAAGAGACCC TTCGTGGAGG AGGCGGAGCG GCTGCGCGTG CAGCACAAGA         800
350   AAGACCACCC CGATTACAAG TACCAGCCCC GGCGGAGGAA GTCGGTGAAG         850
352   AACGGACAAG CGGAGGCCGA AGAGGCCACG GAACAGACTC ACATCTCTCC         900
354   TAATGCTATC TTCAAGGCGC TGCAAGCCGA CTCCCCACAT TCCTCCTCCG         950
356   GCATGAGTGA GGTGCACTCC CCGGGCGAGC ACTCTGGGCA ATCTCAGGGT        1000
358   CCGCCGACCC CACCCACCAC TCCCAAAACC GACGTGCAAG CTGGCAAAGT        1050
360   TGATCTGAAG CGAGAGGGGC GCCCTCTGGC AGAGGGGGGC AGACAGCCCC        1100
362   CCATCGACTT CCGCGACGTG GACATCGGTG AACTGAGCAG CGACGTCATC        1150
364   TCCAACATTG AGACCTTCGA CGTCAATGAG TTTGACCAAT ACTTGCCACC        1200
366   CAACGGCCAC CCAGGGGTTC CGGCCACCCA CGGCCAGGTC ACCTACACTG        1250
368   GCAGTTACGG CATCAGCAGC ACCGCACCCA CCCCTGCGAC CGCGGGCCAC        1300
370   GTGTGGATGT CGAAGCAGCA GGCGCCGCCC CCTCCTCCGC AGCAGCCTCC        1350
372   GCAGGCCCCG CAAGCCCCAC AGGCGCCTCC GCAGCAGCAA GCACCCCCGC        1400
374   AGCAGCCGCA GGCACCCCAG CAGCAGCAGG CACACACGCT CACCACGCTG        1450
376   AGCAGCGAGC CAGGCCAGTC CCAGCGAACG CACATCAAGA CGGAGCAGCT        1500
378   GAGCCCCAGC CACTACAGGG AGCAGCAGCA GCACTCCCCG CAACAGATCT        1550
380   CCTACAGCCC CTTCAACCTT CCTCACTACA GGCCCTCCTA CCCGCCCATC        1600
382   ACCCGTTCGG AATACGACTA CGCTGACCAT CAGAACTCCG GCTCCTACTA        1650
384   CAGTCACGCA GCCGGCCAGG GCTCAGGGCT CTACTCCACC TTCACTTACA        1700
386   TGAACCCCGC GCAGCGCCCC ATGTACACCC CCATCGGTGA CACCTCCGGG        1750
388   GTCCCTTCCA TCCCGCAGAC CCACAGCCCG CAGGACTGGG AACAACCAGT        1800
390   CTACACACAG GTCACCAGAC CCTGAGAAGA GAAAAGCTAT GGTGACAGAG        1850
392   CTGATCTTTT TTTTTTTTT TTTTTAAAGA AGAAAAGAAA GAAACGAAAA        1900
394   AGAAAAAGCT GAAGGAAATC AAGAACCAAT TGAAATTCCT TTGGACACTT        1950
396   TTTTTTTTGT CCTTTCGTTA ATTTTTAAAA GACATGTAAA GGAAGGTAAC        2000
398   GATTGCTGGG CATTCCAGGA GAGAGACTTT AAGACTTTGT CTGAGCTCAT        2050
400   GACAACATAT TGCAAATGGC CGGGCCACTC GTGGCCAGAC GGACAGCACT        2100
402   CCTGGCCAGA TGGACCCACC AGTATCAGCG AGGAGGGGCT TGTCTCCTTC        2150
404   AGAGTTAACA TGGAGGACGA TTGGAGAATC TCCCTGCCTG TTTGGACTTT        2200
```

VERIFICATION SUMMARY   DATE: 09/09/2001
PATENT APPLICATION: US/09/910,087   TIME: 18:50:53

      Input Set : A:\Pto.amc
      Output Set: N:\CRF3\09072001\I910087.raw

L:5 M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:]
L:10 M:220 C: Keyword misspelled or invalid format, [(ii) TITLE OF INVENTION:]
L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:417 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=19